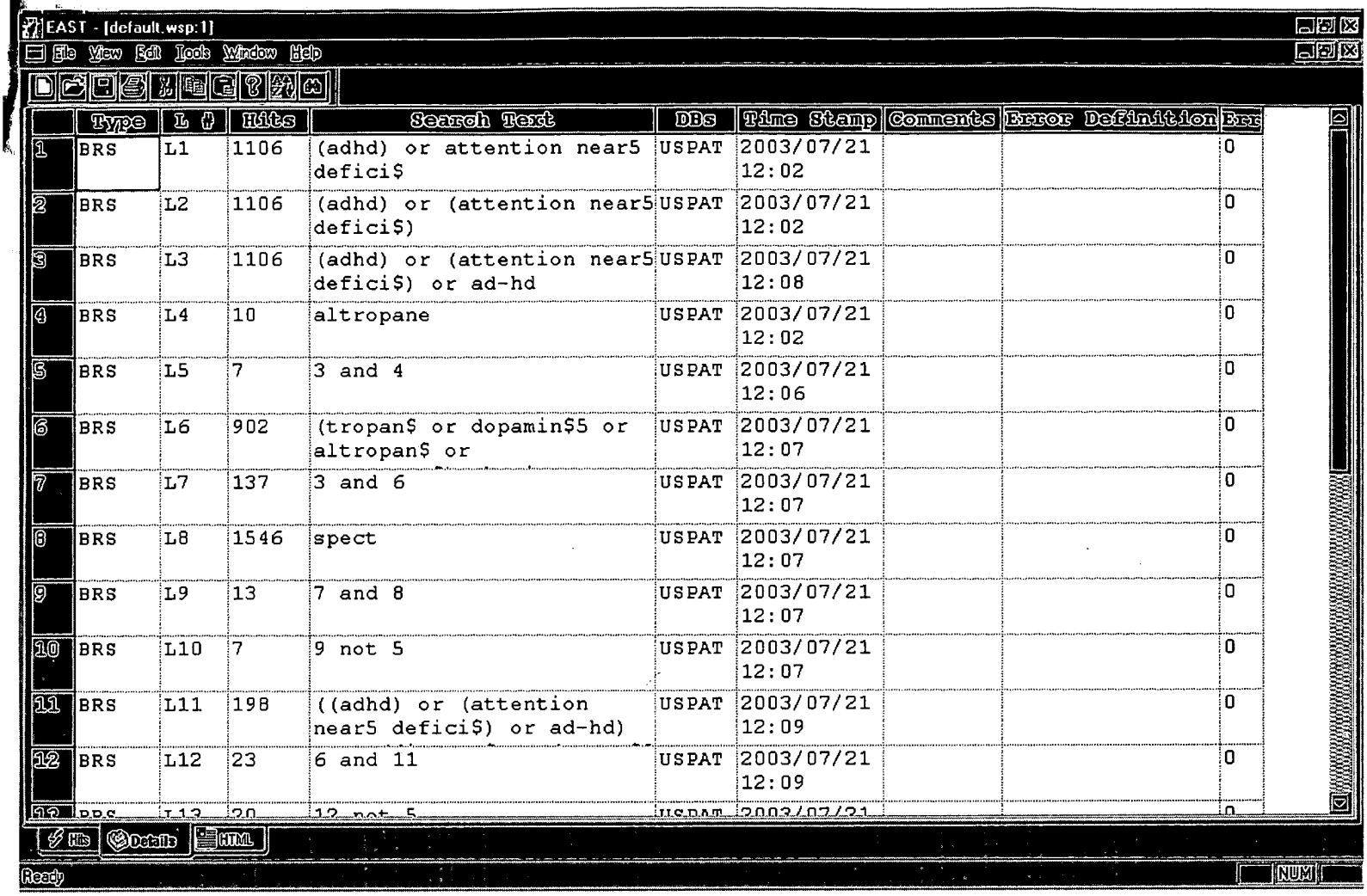

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13	BRS	L13	20	12 not 5	USPAT	2003/07/21			0

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18	BRS	L18	4	13 and 8	USPAT	2003/07/21 12:21			0
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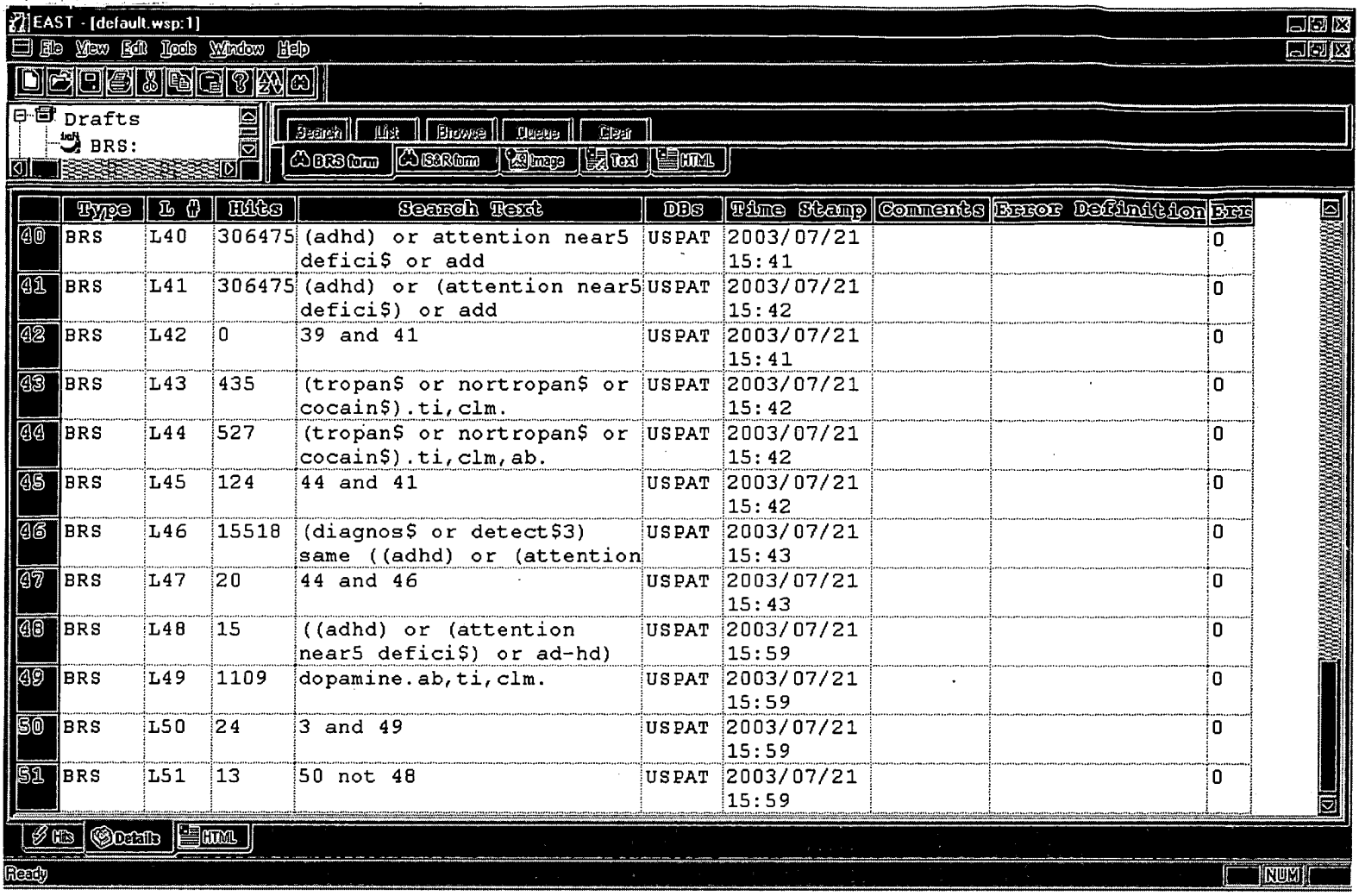

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50	BRS	L50	24	3 and 49	USPAT	2003/07/21 15:59			0
51	BRS	L51	13	50 not 48	USPAT	2003/07/21 15:59			0

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BRS form | ISR form | Image | Text | HTML

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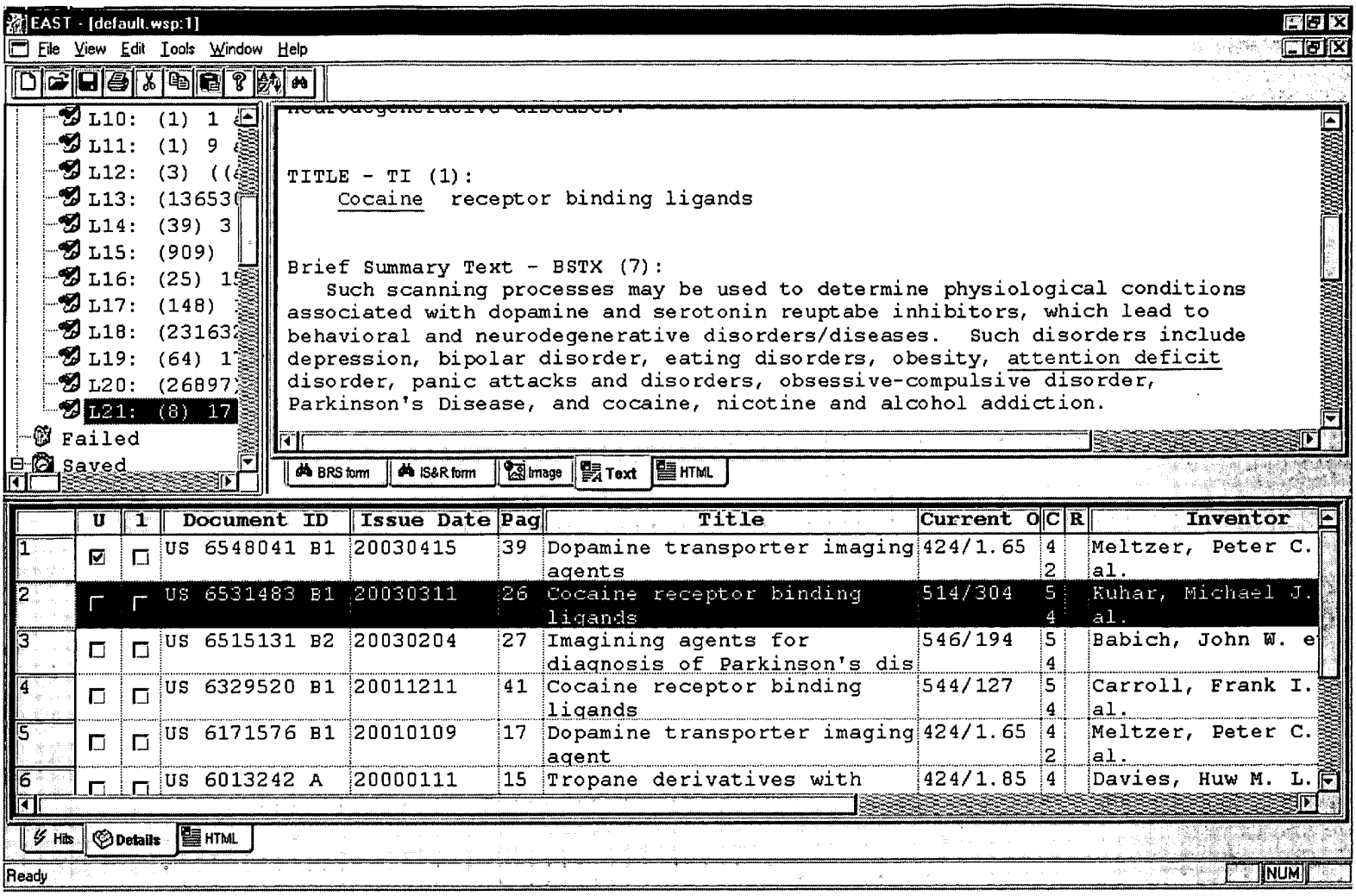
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Such scanning processes may be used to determine physiological conditions associated with dopamine and serotonin reuptabe inhibitors, which lead to behavioral and neurodegenerative disorders/diseases. Such disorders include depression, bipolar disorder, eating disorders, obesity, attention deficit disorder, panic attacks and disorders, obsessive-compulsive disorder, Parkinson's Disease, and cocaine, nicotine and alcohol addiction.
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Inventor
1 US 6548041 B1 20030415 39 Dopamine transporter imaging agents 424/1.65 4 2 Meltzer, Peter C. al.
2 US 6531483 B1 20030311 26 Cocaine receptor binding ligands 514/304 5 4 Kuhar, Michael J. al.
3 US 6515131 B2 20030204 27 Imagining agents for diagnosis of Parkinson's dis 546/194 5 4 Babich, John W. e
4 US 6329520 B1 20011211 41 Cocaine receptor binding ligands 544/127 5 4 Carroll, Frank I. al.
5 US 6171576 B1 20010109 17 Dopamine transporter imaging agent 424/1.65 4 2 Meltzer, Peter C. al.
6 US 6013242 A 20000111 15 Tropane derivatives with 424/1.85 4 Davies, Huw M. L.
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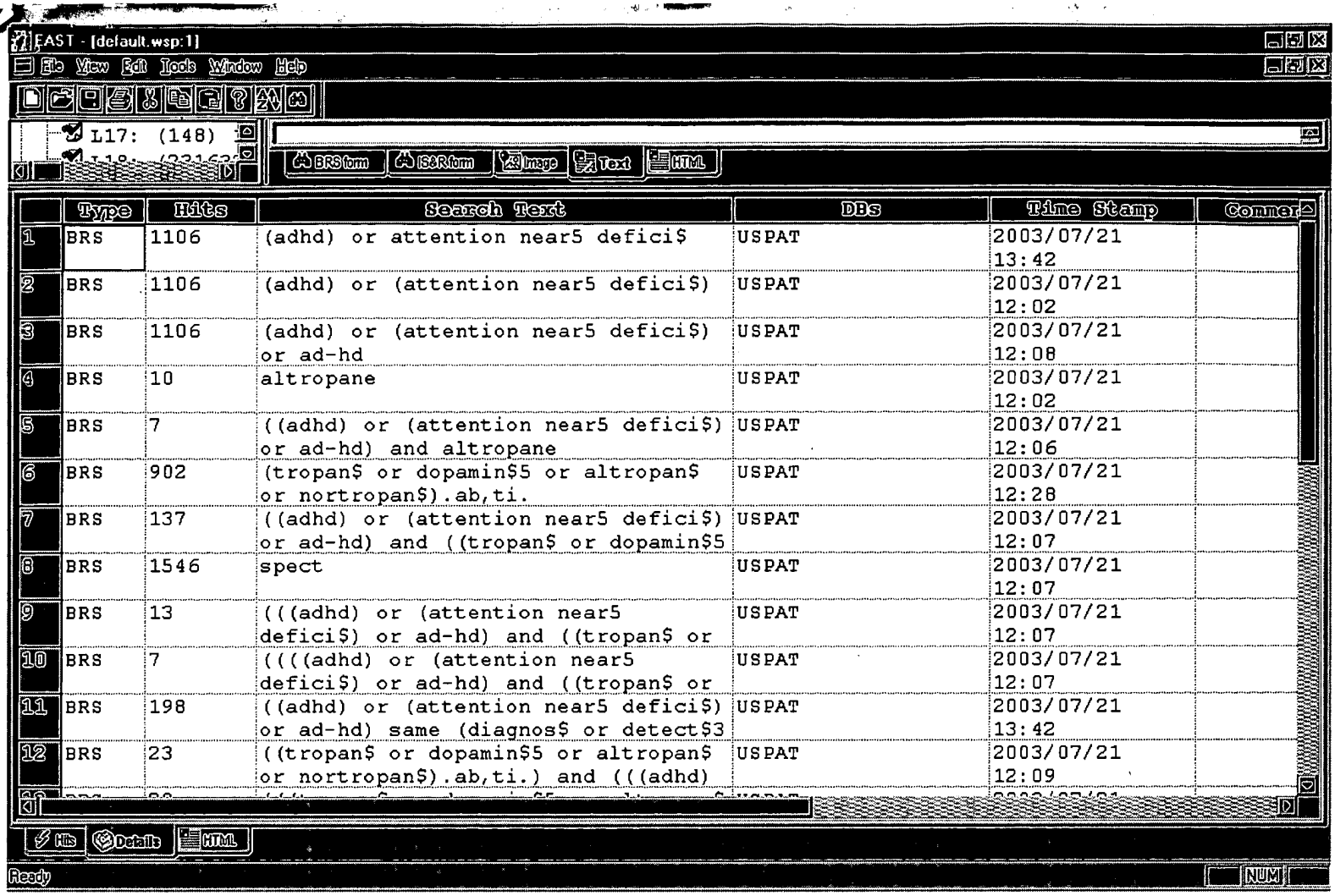
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8 BRS 1546 spect USPAT 2003/07/21 12:07
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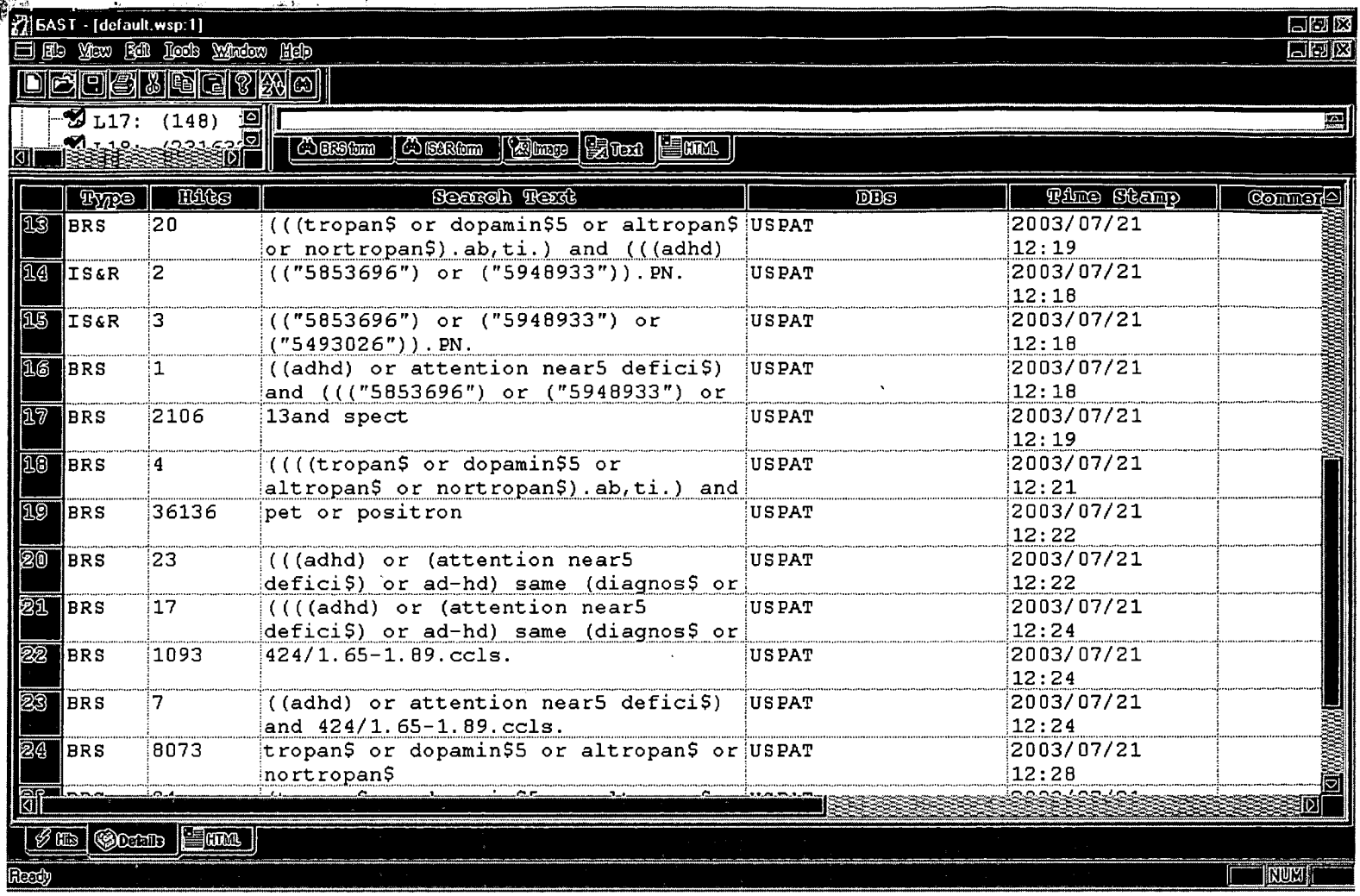
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16 BRS 1 ((adhd) or attention near5 defici$) and ((("5853696") or ("5948933") or USPAT 2003/07/21 12:18
17 BRS 2106 13and spect USPAT 2003/07/21 12:19
18 BRS 4 ((((tropan$ or dopamin$5 or altropan$ or nortropan$).ab,ti.) and USPAT 2003/07/21 12:21
19 BRS 36136 pet or positron USPAT 2003/07/21 12:22
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23 BRS 7 ((adhd) or attention near5 defici$) and 424/1.65-1.89.ccls. USPAT 2003/07/21 12:24
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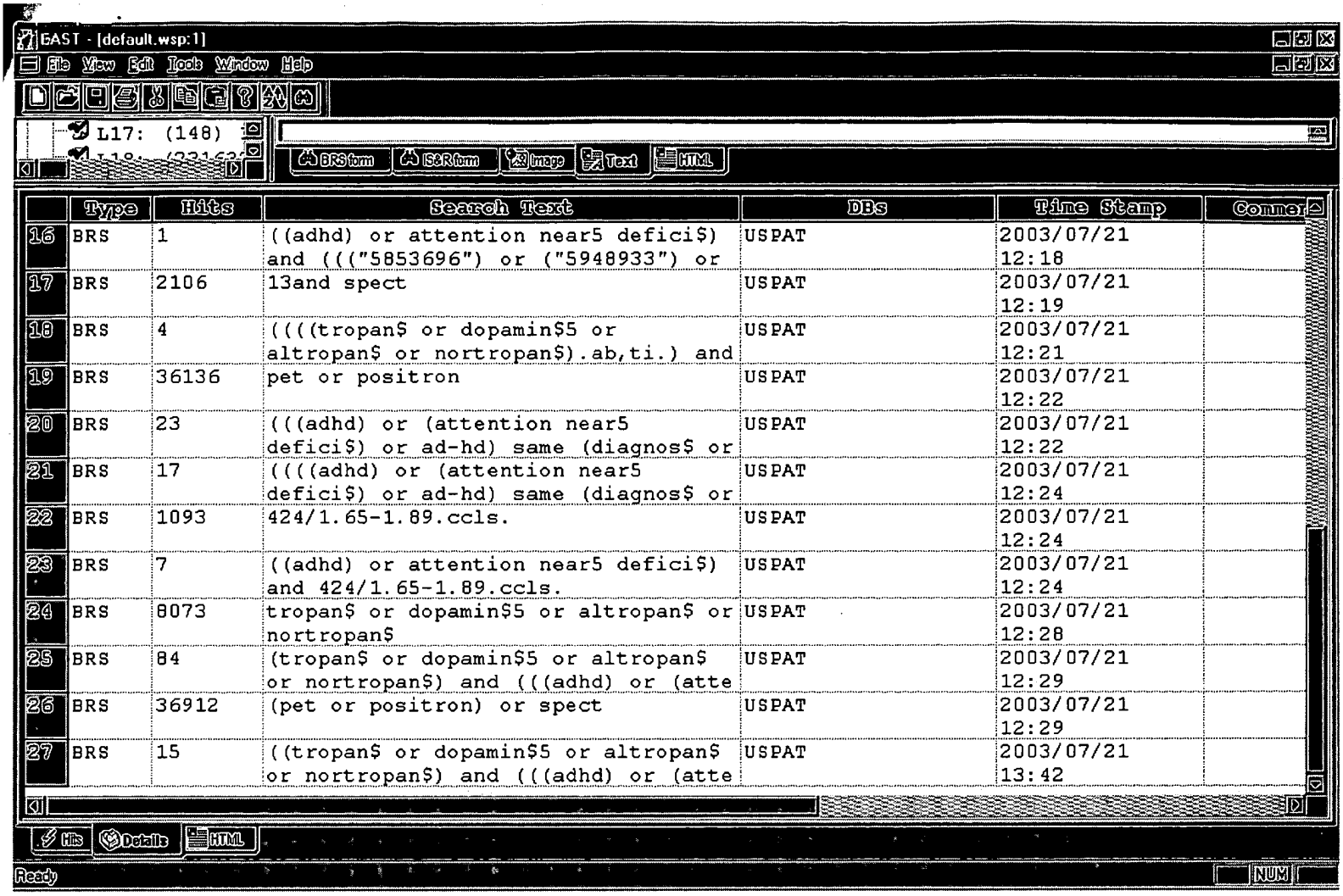
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L5 ANSWER 23 OF 28 CAPLUS COPYRIGHT 2003 ACS on STN
AB The cocaine congener 2.beta.-carbomethoxy-3.beta.-(4'-iodophenyl) **tropane** (.beta.-CIT) has a chem. structure that enables labeling with carbon-11 either by N-methylation or by O-methylation. The regional brain uptake of [N-methyl-11C].beta.-CIT and [O-methyl-11C].beta.-CIT was compared in cynomolgus monkeys using positron emission tomog. (**PET**). The striatal uptake of radioactivity after i.v. injection of [O-methyl-11C].beta.-CIT reached a plateau at 30-40 min, whereas the uptake of [N-methyl-11C].beta.-CIT increased continuously during the time of the **PET** measurement. Two of the putative labeled metabolites, [N-methyl-11C].beta.-CIT-acid and [O-methyl-11C]nor-.beta.-CIT were prepd. and examd. with **PET** to investigate if they may enter the brain and thus **add** to the radioactivity uptake obtained with [11C].beta.-CIT. Less than 0.4% of injected [N-methyl-11C].beta.-CIT-acid entered the brain whereas 5-6% of [O-methyl-11C]nor-.beta.-CIT entered the brain and accumulated in the striatum and in the thalamus. The fraction of [O-methyl-11C]nor-.beta.-CIT obtained in plasma after i.v. injection of [O-methyl-11C]nor-.beta.-CIT, however, never exceeded 3%. Consequently, the formation of [N-methyl-11C].beta.-CIT-acid and [O-methyl-11C]nor-.beta.-CIT cannot be the explanation for the different time-activity curves in the monkey brain demonstrated with [11C].beta.-CIT labeled in two different positions. An unidentified labeled lipophilic metabolite, detected in monkey plasma after injection of [O-methyl-11C].beta.-CIT, remains as the only possible explanation for the differences between [N-methyl-11C].beta.-CIT and [O-methyl-11C].beta.-CIT.
AN 1999:371214 CAPLUS
DN 131:167172
TI Different brain radioactivity curves in a **PET** study with [11C].beta.-CIT labelled in two different positions
AU Lundkvist, Camilla; Halldin, Christer; Swahn, Carl-Gunnar; Ginovart, Nathalie; Farde, Lars
CS Karolinska Institutet, Department of Clinical Neuroscience, Psychiatry, Karolinska Hospital, Stockholm, S-17176, Swed.
SO Nuclear Medicine and Biology (1999), 26(4), 343-350
CODEN: NMBIEO; ISSN: 0969-8051
PB Elsevier Science Inc.
DT Journal
LA English
RE.CNT 23 THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 24 OF 28 CAPLUS COPYRIGHT 2003 ACS on STN
AB The following studies used mol. **imaging** techniques to trace the neural substrates of behavior in two genetic models of hyperactivity in rats. Addnl., the studies compared differences between markers sensitive to short-term changes and markers sensitive to longterm changes in neuronal activity. The first series of expts. used adult male Spontaneously Hypertensive Rats (SHR) with Wistar-Kyoto Normotensive (WKY) rats as controls. The second series used Naples-High Excitability (NHE) rats and Naples Low-Excitability (NLE) rats with random-bred (NRB) rats as controls. The following techniques were used to analyze the brains of these animals: (1) quant. autoradiog. of **dopamine** receptors, (2) Ca2+/calmodulin-dependent protein kinase II (CaMKII) immunohistochem., (3) transcription factors such as c-FOS, and (4) quant. cytochrome oxidase (C.O.) histochem. In Series 1 expts., light microscope and computer assisted image anal. showed that the SHR had a higher d. of binding sites for D-1/D-5 **dopamine** receptors and a reduced expression of CaMKII and c-FOS, but not JUN-B, in the most rostral portions of the caudate-putamen, the nucleus accumbens, and the olfactory tubercle. SHR also had a lower C.O. activity in the medial and lateral prefrontal cortexes, compared to WKY controls. Furthermore, regional correlative analyses among different areas with different markers revealed that under basal conditions, SHR had reduced interregional correlations. In Series 2 expts., C.O. metabolic differences between the NLE and NHE were found in the granular cell layer of the outer blade of the dentate gyrus. In addn., NLE showed greater C.O. activity than NRB in medial frontal cortex, and lower activity in perirhinal cortex (dorsal region). NHE showed greater C.O. activity than NRB in entorhinal cortex (superficial layers)

and lower activities in perirhinal cortex and cortical amygdala. These data support the hypothesis that NLE/NHE rats may be an appropriate model for studying genetically altered limbic regions related to impaired emotional processing. The results support the involvement of limbic cortico-striatal circuits in the anterior basal forebrain in attentive processes and impulsiveness, and support the use of the SHR and NHE strains as animal models of **attention deficit** hyperactivity disorder (**ADHD**) in children.

AN 1998:802191 CAPLUS

DN 130:208335

TI Functional **imaging** probes to study the neural bases of behavior in genetic animal models of **ADHD**: a comparative analysis of short and long-term markers of neuronal activity

AU Papa, Michele; Sadile, Adolfo G.; Sergeant, Joseph A.; Shumake, Jason; Gonzalez-Lima, F.

CS Institute of Human Anatomy, Laboratory Neurophysiology of Behaviour and Neural Networks, Department of Human Physiology "F. Bottazzi", Second University of Naples (SUN), Naples, Italy

SO Cytochrome Oxidase in Neuronal Metabolism and Alzheimer's Disease, [Proceedings of an International Symposium on Cytochrome Oxidase in Neuronal Metabolism and Alzheimer's Disease], New Orleans, Oct. 28, 1997 (1998), Meeting Date 1997, 145-169. Editor(s): Gonzalez-Lima, Francisco. Publisher: Plenum, New York, N. Y.
CODEN: 67AXAO

DT Conference

4. ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS on STN

AB A method of **diagnosing attention deficient** -hyperactivity disorder (**ADHD**) in a human patient by assessing the level of dopamine transporter in at least one region of the patient's central nervous system, where an elevated level of dopamine transporter in the patient is indicative of ADHD. In embodiments of the invention, assessment of dopamine transporter levels includes assessing binding of a dopamine transporter ligand to the dopamine transporters using PET or SPECT.

AN 2002:833293 CAPLUS

DN 137:334690

TI Methods for **diagnosing** and monitoring treatment **ADHD** by assessing the dopamine transporter level

IN Madras, Bertha K.; Fischman, Alan J.; Meltzer, Peter C.

PA The General Hospital Corporation, USA

SO U.S. Pat. Appl. Publ., 12 pp., Cont.-in-part of U.S. Ser. No. 605,621, abandoned.
CODEN: USXXCO

DT Patent

LA English

FAN.CNT 4

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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	JP 2002338569	A2	20021127	JP 2002-100578	19991029
	JP 2003503325	T2	20030128	JP 2001-505802	20000628
	US 2002010207	A1	20020124	US 2001-875523	20010606
	US 2002131931	A1	20020919	US 2001-975586	20011011
	US 2002150535	A1	20021017	US 2002-95897	20020312
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	US 1999-141540P	P	19990628		
	US 2000-605621	B2	20000628		
	US 2001-300133P	P	20010622		
	US 2001-307744P	P	20010725		
	US 1995-552584	A3	19951103		
	US 1997-893921	A3	19970711		
	US 1999-314441	A3	19990519		
	JP 1999-309599	A3	19991029		
	US 2000-568106	A1	20000510		
	WO 2000-US17769	W	20000628		
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L5            28 S L4 AND L3
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L9            23 S L8 NOT L5
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L13        20151 S TROPAN? OR NORTROPAN? OR ALTROPAN? OR COCAIN?
L14            1 S L11 AND L13

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